



PATENT ABSTRACTS OF JAPAN

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INANAGA KIYOFUMI****(54) ACOUSTIC REPRODUCTION DEVICE****(57) Abstract:**

PROBLEM TO BE SOLVED: To reduce the cost and to decrease the circuit scale.

SOLUTION: A couple of FIR filters (1R(1), 1L(1)) and (1R(2), 1L(2)) are provided to two acoustic signals for different virtual sound images S_1 , S_2 . Each of the FIR filters has a filter characteristic where a transfer function to cancel a crosstalk component reaching a right ear or a left ear of a listener is convoluted on a transfer function of a virtual sound image corresponding to an input signal to be reached to the right ear or the left ear of the listener. Then a 3-dimensional sound field space where two virtual sound images are localized at a prescribed position is realized by adding outputs of the FIR filters 1R(1) and 1R(2) and supplying the sum to a right speaker SP(R) and adding outputs of the FIR filters 1L(1) and 1L(2) and supplying the sum to a left speaker SP(L).

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